

# **APLMON 2.0 Installation Guide**



**I.P. Sharp**  

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A REUTER COMPANY

**SHARP APL/370  
APL System Monitor  
Update 19.6**



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Printed in Canada  
MAY 1988  
Publication Code: 0943 8805 E1

## INTRODUCTION

### Summary of Enhancements

The following is a summary of enhancements in Version 2.0 of the APL System Monitor (APLMON).

#### APLMON 2.0:

- \* enhances the existing support for HDS104 and HDS108 devices.
- \* has the ability to list saved profiles.
- \* has the capability of reading data from either the currently active system, or from previously stored statistics.
- \* allows data from the active system also to be directed to HSPRINT or file, in addition to the User's terminal.
- \* can be invoked repeatedly without reloading the workspace.
- \* data collection (to a file) can be started as an N-Task (from a previously saved profile).
- \* incorporates the following new reports: CONFIG, EXCEPT, PERSWAP, SCHED, SLOTS, TORUN, and TUNE.
- \* corrections to some of the reports, including UPROFS, APLH, and SWAPS.

### Prerequisites for the SHARP APL System

The prerequisite for this installation is Release 19.0. Please note that sites which have not completed the Release 19.0 Upgrade, should complete step 158 of the Upgrade procedure before attempting to install or upgrade to APLMON 2.0. This is to ensure that the proper file renames have occurred. Please also note that the minimum workspace size required to run a display session is 400K.

### Distribution Materials

The facility is distributed on a single standard label tape. The only dataset on this tape is a SHARP APL File Selective Dump by the name of *APL.FILESYS.DUMP*.

## Precautions

It is strongly recommended that the instructions in this Installation Guide be executed in the order in which they appear. Contact the Distribution Support Team (*ZDIST*) before attempting to execute a step out of sequence.

**DISTNEWS maintenance to the Release 19.0 system should be suspended during the Installation.**

## Preparation

All steps in these procedures assume that you are signed on to a SHARP APL operator account (314158 or 314159), and that the account has also been enrolled as an APLMON user. Instructions throughout this guide which use APE commands assume that you have loaded the APE workspace [by typing `)LOAD 1854339 APE`], and have typed *EDIT*.

## Using this Guide

This guide is both for sites which are upgrading the current version of APLMON to APLMON 2.0, as well as for those installing the product for the first time. The guide is divided into numbered steps, each of which is a logical step in the Installation process. For each step, the Installation Guide provides three sections.

The **Discussion** section provides a description of the action being taken and provides any necessary background information. This section should be read **before** the step is carried out.

The **Procedure** section provides the sequence of discrete actions that make up a logical step. A logical step may be one or more discrete commands or actions. These may be APL commands, MVS instructions, or instructions on how to edit a document or how to respond to a prompt. Space is provided ([ ]) to check these off as they are successfully executed.

The **Verification** section allows the user to test the success of the logical steps within the Procedure section. It is important to be certain that a step worked before proceeding to the next one.



## STEP 1 RETRIEVING THE DISTRIBUTION MATERIALS

### Discussion

This step retrieves the Distribution APE library 1854339 *V2APLMON* and the SHARP APL file 314159 *V2APLMON* from the distribution tape. The APE library consists of the following SHARP APL files: 1854339 *V2APLMON*, and 1854339 *V2APLMON*.

### Procedure

[ ] Use JCL similar to:

```
//RETR EXEC FUTL
//APLINP DD DSN=APL.FILESYS.DUMP,
// DISP=OLD,VOL=SER=R01906,LABEL=(1,SL)
//SYSIN DD *
COMMAND RETRIEVE
INCLUDE ID=1854339
INCLUDE ID=314159
/*
```

### Verification

Check the output generated by this step and ensure that all completion codes are zero (0) before continuing.

## STEP 2

## IMPORTING DOCUMENTS FROM THE DISTRIBUTION APE LIBRARY

### Discussion

This step imports the required APE execution scripts from the Distribution APE library 1854339V2APL~~MON~~ into APE library 1854339CONVERT:SYS:PRIVATE.

### Procedure

```
[ ] Signon to 314157 or 314158
[ ] )LOAD 1854339 APE
[ ] EDIT
[ ] SL 1854339V2APLMON
[ ] KO
[ ] XD IMPORT
```

### Verification

Verify that the following scripts have actually been imported into the APE library 1854339CONVERT:SYS:PRIVATE:

```
AM2ACCEPT
AM2BACKOFF
AM2DELETE
AM2INSTALL
```



\*\*\*\*\* ATTENTION \*\*\*\*\*

### STEP 3

### PREPARING FOR VERSION 2.0 APLMON

#### Discussion

If your site currently runs APLMON, execute this step in order to prepare for version 2.0. It will shut down the current version of APLMON.

If your site does **not** currently run APLMON, please skip this step and continue with STEP 4 of this Installation/Upgrade procedure.

#### Procedure

[ ] )PORT MON (this displays four digit taskid)

[ ] □BOUNCE xxxx (four digit taskid from above)

#### Verification

The □BOUNCE instruction displays a 1 if successful.

## STEP 4

## INSTALLING (UPGRADING TO) APLMON 2.0

### Discussion

This step installs (upgrades to) APLMON 2.0. The execution script performs the following procedures:

- \* copies the access matrix from file 314159 *APLMON* to 314159 *V2APLMON*
- \* renames file 314159 *APLMON* to 314159 *V1APLMON*
- \* renames file 314159 *V2APLMON* to 314159 *APLMON* (production status)
- \* customizes in the following manner: all the .XMPL (examples of required local '.IPSL' modules) type documents in 1854339 *V2APLMON* are set to default values, and any of the .IPSL (required local modules) type documents from 1854339 *APLMON* are copied forward
- \* compiles the *APLMON* version 2.0 workspace as 314159 *APLMON*

### Procedure

[ ] *SL* 1854339*CONVERT*

[ ] *XD UPGRADE*

[ ] ..reply *PRIVATE AM2INSTALL* to prompt

### Verification

Ensure that *PRIV.IPSL* and *QUEUES.IPSL* have actually been copied forward, and that file 314159 *V2APLMON* no longer exists.

**NOTE:** If your system requires further customization, please see the sections 'Adding New Users', and 'Adding New Systems' at the end of this guide.



## STEP 5

## STARTING APLMON'S PRIVILEGED MASTER N-TASK

### Discussion

This step starts APLMON's privileged master N-task. The N-task has the signon initials 'MON', and runs under OPR1 (account 314159).

### Procedure

```
[ ] )LOAD 314158 STATE
[ ] 314159 314159 RUN 'MON APLMON'
```

### Verification

This step is successful if the instruction `)PORTS MON` displays a valid taskid.

## STEP 6 TESTING THE INSTALL

### Discussion

This step tests that APLMON 2.0 has been successfully installed. It must be run from an APLMON enrolled user account.

### Procedure

```
[ ] )LOAD 314159 APLMON
[ ] APLMON      (required only if user is privileged)
[ ] SLOTS
```

### Verification

If APLMON 2.0 has indeed been successfully installed, the SLOTS Report Screen will appear after completing this step. If APLMON 2.0 has not been installed, the result will be a 'COMMAND ERROR'. Please refer to the APLMON User's Guide for more details.



\*\*\*\*\* OPTIONAL STEP \*\*\*\*\*

PERFORM THIS STEP ONLY IF YOU WISH TO BACKOFF THE UPGRADE

STEP 7                      BACKING OFF

Discussion

This optional step is to be executed should this Upgrade need to be backed off. It will issue the appropriate renames, and re-compile the Version 1.0 workspace. Please note that once you are ready to upgrade to APLMON 2.0 you must return to STEP 4 of the Upgrade Procedure.

Please notify the Distribution Support Team (ZDIST) should this step be required for any reason.

Procedure

```
[ ] SL 1854339CONVERT
[ ] XD UPGRADE
[ ] ..reply PRIVATE AM2BACKOFF to prompt
[ ] )PORT MON      (this displays four digit taskid)
[ ] □BOUNCE xxxx  (four digit taskid from above)
[ ] )LOAD 314158 STATE
[ ] 314159 314159 RUN 'MON APLMON'
```

Verification

The □BOUNCE instruction displays a 1 if successful. If the instruction )PORTS MON returns a valid taskid, APLMON's master N-task has successfully started.

## STEP 8

## UPDATING THE PRODUCTION APE LIBRARIES

### Discussion

This step copies the access matrix from the production *APL*MON *APE* library to the version 2.0 *APE* library, and renames the existing production *APE* library to 1854339V1*APL*MON and the version 2.0 *APE* library to 1854339*APL*MON.

### Procedure

- [ ] *SL* 1854339*CONVERT*
- [ ] *XD UPGRADE*
- [ ] ...reply *PRIVATE AM2ACCEPT* to prompt

### Verification

Successful completion may be tested by being able to set the *APE* library to the renamed old *APL*MON library (*SL* 1854339V1*APL*MON).



## STEP 9

## FINALIZING THE UPGRADE PROCEDURE

### Discussion

This step deletes the files and workspaces which are artifacts of this Upgrade procedure. It is suggested that a period of at least one week have elapsed before executing this script.

### Procedure

```
[ ] SL 1854339CONVERT
[ ] XD UPGRADE
[ ] ...reply PRIVATE AM2DELETE to prompt
```

### Verification

The success of this step may be tested by ensuring that the workspace 314159 V1APLMON, and the V1APLMON APE library no longer exist.

\*\*\*\*\* END OF UPGRADE PROCEDURE \*\*\*\*\*

## ADDING NEW USERS

APLMON can be used from a variety of terminals by any account number which is in a special APLMON privilege vector. The number must also have Validity Table RJE access. You do not need an APL 'privilege' setting in the Validity Table to run APLMON, which means that an APLMON session cannot be used to compromise the security or integrity of your system.

### STEP 1 ADDING A NEW ACCOUNT NUMBER

#### Discussion

This step adds the new account number to the current list in the document 1854339APLMON:PRIV.

#### Procedure

```
[ ] )LOAD 1854339 APE
[ ] EDIT      (as the user number is privileged)
[ ] SL 1854339APLMON
[ ] LD PRIV.IPSL
[ ] edit to add new account number(s)
[ ] SV
```

### STEP 2 RECOMPILING THE APLMON WORKSPACE

#### Discussion

This step compiles the APLMON workspace, using the updated PRIV vector. The script also gives READ access to the file 314159 APLMON to all recently added user numbers.

#### Procedure

```
[ ] COREFRESH
```

### STEP 3 ADDING THE NEW USER(S) TO THE VALIDITY TABLE

#### Discussion

This step adds the new user(s) to the Validity Table (with remote job entry RJE, access). The function *APLVTB* allows you to enter the desired user number into the table. Please note that the function *VTB* in the same workspace must be executed in order for the new Validity Table to take effect immediately. If you use 314158 *RADMSFS* at your site, refer to the SHARP APL/370 Release 19.0 System Administrator's Guide.

#### Procedure

```
[ ] )LOAD 314158 RADMS
[ ] APLVTB
[ ] VTB
```

### STEP 4 RESTARTING THE APLMON MASTER N-TASK

#### Discussion

This step must be executed in order for APLMON to recognize the new user(s). It will stop and restart the APLMON master N-task. Please note that the signon identifier for the task is *MON*

#### Procedure

```
[ ] )PORT MON      (this displays four digit taskid)
[ ] □BOUNCE xxxx  (four digit taskid from above)
[ ] 314159 314159 RUN 'MON APLMON'
[ ] The new user may now sign on an APLMON session.
```



## ADDING NEW SYSTEMS

In order to add the names of additional *QMS* driven systems (such as PRINTREQ, HSPRINT, HCPRINT, BTASKREQ, NUMBREQ, or SORTREQ) to the APL Monitoring system, the following procedure must be followed:

### STEP 1      ADDING THE NEW SYSTEM NAME(S)

#### Discussion

This step adds the additional system name(s) to the current list in the document 1854339APLMON:QUEUES.

#### Procedure

```
[ ] )LOAD 1854339 APE
[ ] EDIT      (as the user number is privileged)
[ ] SL 1854339APLMON
[ ] LD QUEUES.IPSL
[ ] edit to add new system name(s)
[ ] SV
```

### STEP 2      RECOMPILING THE APLMON WORKSPACE

#### Discussion

This step compiles the APLMON workspace, using the updated QUEUES vector.

#### Procedure

```
[ ] COREFRESH
```

### STEP 3 RESTARTING THE APLMON MASTER N-TASK

#### Discussion

This step must be executed in order for APLMON to recognize the new system name(s). It will stop and restart the APLMON master N-task. Please note that the signon identifier for the task is *MON*.

#### Procedure

- [ ] )PORT MON (this displays four digit taskid)
- [ ] □BOUNCE xxxx (four digit taskid from above)
- [ ] 314159 314159 RUN 'MON APLMON'

## RUNNING APLMON

If your site plans to run APLMON whenever APL is running, we suggest the introduction of the account number 314160 specifically for this purpose. 314160 is not privileged at sign on, but appropriately and clearly connotes an Operations or Systems account. Whatever number is chosen as the main monitoring account, it is suggested that the number not normally be privileged.

To begin an APLMON session, load the APLMON workspace, and the menu screen will be displayed immediately. If you are running on a privileged account number, you will need to type *APLMON* to begin the session.

An account number which usually or always runs APLMON can be profiled to facilitate starting the monitor session. For example, from account 314158:

```
)CLEAR  
□LX←'□LOAD ''314159 APLMON''  
)SAVE 314160 PROFILE  
)LOAD OPR  
PROF 314160
```

Now, when 314160 signs on, it is automatically presented with the session configuration menu.

When you are at the session configuration menu, pressing the ENTER key will begin the monitor display cycle using the default selection parameters. Pressing the HELP key (PF1 by default) will begin the *APLMON* tutorial, or you may select any one of your private profiles (refer to APLMON User's Guide for more information on how to use APLMON).